

## SMB-2000 1/0 (Sugar Mill Bearing Heavy Duty Grease)

*(Certified & Approved by NSF Organization, Company No: C077291 NSF registration No: 166843)*

### DESCRIPTION:

**SMB-2000 1/0** is heavy-duty high-performance grease blend with very high viscosity special synergistic base oil, metal complex soap thickener with special EP additive and 12% to 13% solid lubricants for use in a wide range Industrial application. It contains small dosage of synthetic (PAO) ester additives with white solid lubricants Mox-Active (Organo Molybdenum Complex) technology an improvement friction modifier additive creates a passive film on friction surfaces before friction occurs, optimum wear protection and an extremely low coefficient of friction even under extreme pressures, heavy vibrations & high shock loads.

**SMB-2000 1/0** has been formulated to environmental protection and engineering norms with special solid lubricants & non-toxic additive with eco-friendly and chemistry provides thicker and stronger film stability, where bearings are exposed to high shock loads and heavy vibration, high temperature & low speed both exist in indoors and outdoors in both cold and high temperature applications and gives high protection by minimizing metal-to-metal contact and reduces friction, wear at minimal consumption. All of this turn reduces maintenance cost and extend the life of equipment and friction elements avoiding seizure & expensive repairs.

**SMB-2000 1/0** grease has excellent flow and pump-ability when working under high hydraulic pressure generated by the pumps of centralized and Individualized systems at high temperature and gives excellent lubrication for extended bearings life and gives longer relubrication interval periods and over a wide range of temperatures in Sugar Mills Bearings & Gears applications.

### FEATURES AND BENEFITS

- Low consumption & Immediate monetary savings.
- Extends bearings life and gives longer relubrication intervals.
- High protection against seizure and wear, avoiding expensive repairs.
- Highly loaded bearings in water / steam contaminated environments, No need for external cooling.
- Excellent flow and pump-ability for automatic centralized and Individualized systems.
- Thermally stable, can withstand high shock loads, and minimizing metal to metal contact.
- Good sealing properties against hot water, cane juice and dirt-laden environments.
- High drop point ensures extended operating temperature range upto -20°C to 160°C.
- Non-bituminous, non-toxic additive and Environment friendly.
- Elimination of accidents occurring by spills of asphaltic oils & other graphite greases and environmental impact caused by the big volumes of lubricant waste commonly generated in sugar industry.

## FORMS OF APPLICATION AND USES

- **SMB-2000 1/0** has been designed to lubricate: - Journal, Roller & Sleeve bearings, Transmission brasses, Crown wheels, Transmissions open gears & Crystallizer transmission gears & Rotating dryer gears with the capability to resist the permanent attack of pollutants as steam vapour, water, juice and trash.
- **Application Industry:** Sugar mills large heavy loaded in roller journal bearings & large girth gear drives, Steel, Paper, Mining, Cement, Chemical, Marine & Offshore.
- **SMB-2000 1/0** can be applied by high pressure spray systems but, immersion or circulation lubrication is possible too. It is suggested for heavy duty gear drives working at low speeds. This range is strongly recommended in Sugar, cement, mining, chemical and power plants.

## PROPERTIES OF SMB-2000 1/0 GREASE

Specification	Test Method	Results
NLGI	ASTM-D217	1 & 0
Color & Appearance	Visual	Dark Grey & Smooth Tacky
Thickener Type	-	Metal Complex + Special EP additives
Base Oil Type		Synergistic base oil
Solid Lubricant	-	12% to 13% Solid lubricants & Mox-Active (Organo Molybdenum Complex) + PAO Ester
Viscosity Cst @ 40°C	ASTM-D445	1500-2500
Penetration, Worked	ASTM-D217	320-380
Dropping Point	ASTM-D566	+200
Copper strip corrosion	ASTM D4048	1a
Four ball Wear Scar Diameter, mm	ASTM-D2266	0.40
4-Ball Weld Load	ASTM-D2596	800 pass
EMCOR Rust Protection	ASTM D6138	0,0
Water Washout	ASTM D1264	2.8 %
Operating Range °C	-	-20°C to 160°C (short period +160)
<b>NSF registration No:</b>	-	<b>166843</b>

## USAGE & CONSUMPTION

Consumption savings of up to 1:10 compared to asphaltic oils and of up to 20% to 30% compared to other graphite greases on immediate monetary savings. The quantity of **SMB-2000 1/0** required to lubricate a triplet or mill, doesn't exceed an average of 2.25 kgs to 2.5 kgs a day, being also capable to lubricate the crown wheels, by means of an appropriate dripping system by adjusting the consumption levels to **SMB 2000 1/0** best performances, depends on the type of lubrication system is used.

## THE INDICATED SPECIFIC CONSUMPTION QUANTITIES ARE BASED ON THE FOLLOWING ASSUMPTIONS:

- 1.) No major damage to the tooth flanks
- 2.) Sufficient contact ratio
- 3.) Through and regular inspection and maintenance of the gear drive and the spray system
- 4.) Normal operating conditions
- 5.) Good spray pattern on and off time of pumping grease.
- 6.) The lubricant temperature must be set to allow unimpeded pumping and spraying. This depends on the type of lubrication system used and also by adjusting the consumption levels.

**POWERMAXX LUBE INDIA**

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**SMB 2000 1/0 is Certified & Approved by NSF Organization from USA.**

**Company No: C077291 NSF registration No: 166843**



Nonfood Compounds

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Registration may be verified at  
[nsfwhitebook.org](http://nsfwhitebook.org)



*Amy J. McCardell*

AJ McCardell  
NSF Nonfood Compounds  
Registration Program  
Company No: C0722971

## Certificate of Registration

Powermaxx Lube India has achieved Registration status for SMB 2000 1/0 to the NSF International Registration Guidelines for Proprietary Substances and Nonfood Compounds (2022) .

### SMB 2000 1/0

Category Code: H2

NSF Registration No. 166843

**This product is acceptable as a lubricant where there is no possibility of food contact (H2) in and around food processing areas. Such compounds may be used as lubricants, release agents, or antirust films on equipment and machine parts in locations in which there is no possibility of the lubricant or lubricated part contacting edible products.**

Registration of this product is current when the NSF Registration Mark and Category Code appear on the product label reviewed by NSF, and the Registered product name is in the NSF White Book™ ([www.nsfwhitebook.org](http://www.nsfwhitebook.org)).

Listing of all registered nonfood compounds by NSF International is not an endorsement of those compounds or of any performance or efficacy claims made by the manufacturer.